Critical Item:

Pressure Regulator (3 each)

Find Number:

None

Criticality Category:

15

SAA No:

095Y01-003

System/Area: Ansul Dry Chemical/MLP-3

NASA

PMN/

Part No: None Name:

K61-0741

MFG

Drawing/

79X07050

Part No: Angul 14798

Sheet No:

200-202

Function: Provides gas pressure from GN, cylinder to Ansul Dry Chemical tank. Critical Failure Mode: Regulates low, FM09SY01-003.002

Broken spring.

Failure Cause:

Failure Effect: Unable to release Dry Chemical in automatic mode. Possible loss of life/loss of a Space Shuttle Vehicle due to demage to

Hydraulic Equipment resulting from an uncontrolled fire.

### Acceptance Rationale

## Design:

- This system conforms to the requirements of National Fire Protection Association Code (NFPA) 17.
- Regulators are listed by Underwriters Laboratories (UL).

#### Test:

- Pile VI CMRSD requires an annual test.
- Verify outlet pressure 220 \* 10 peig. Verify that pressure gage is within calibration.

#### Inspection:

- Verify functional operation annually and at component replacement. ٥
- PHI Requires: Visually inspect for physical damage and deterioration quarterly.

# Operational Use:

- None, response by Fire Services Personnel when MLP at Launch Pad:
  - During normal Pad operation (routine operation/maintenance personnel present), Fire Services Personnel will respond within 2-9 minutes after notification from LCC Room 1910.
  - During hazardous operations at the Pad (access limited to essential personnel only), response time after notification of a fire would be 2-9 sinutes. Fire Services Personnel will be onsite or in near proximity during all hazardous operations.
  - During post-launch operations (no operation/saintenance personnel present), response time after notification of a fire is expected to typically be within 20 minutes.

## Failure History:

- o No GIDEP Alerts were reported.
- No KSC PRACA history of Failure the critical Failure Mode.
- No trouble tickets were reported.